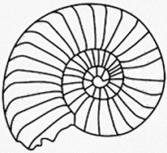
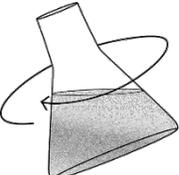
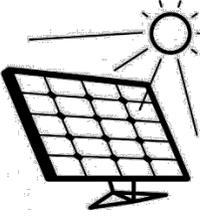
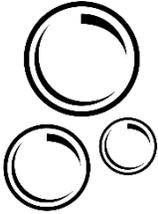
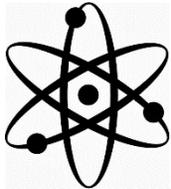


2021 Field Trip Guide

Thursday, October 21 (All sessions 45 min. unless otherwise indicated.)

Grades	Time	Title/Recording	Virtual Activity Description	
K-5	9:30am	A Look Inside Your Brain		Have you ever wondered what a real human brain looks like? UW-Madison's neuroscience graduate students will be showing a real human brain and describing how your brain allows you to move, see, smell, talk and remember what you learn.
6-12	10:30am	Creating Art with Polarized Light		Join UW-Madison scientists from the Materials Research Science and Engineering Center (MRSEC) to create your very own work of art that's only visible when viewed between two polarizing filters! Classroom kits available (while supplies last) and will be coordinated once registered.
K-5	11:30am	Finding Buried Treasure!		Have you ever wondered how scientists find fossils and use them to learn about life on Earth many, many years ago? In this experience, you'll see how scientists find and unearth bones, carefully clean them, and figure out how to fit them into a larger skeleton. After learning about this process, you'll get to chat with scientists who study geology, fossils and more!
K-5	12:30pm	Nature Explorers: Join in the WI BioBlitz		Scientists who study nature often explore connections between living things like mosquitos, ticks and humans. In this field trip experience, you'll get to explore nature with scientists from UW-Madison and naturalists from Aldo Leopold Nature Center to learn how to use science to explore the world around you. This field trip is best paired with the Wisconsin Science Festival BioBlitz. Learn more at: https://WiSciFest.org/BioBlitz/
5-12	12:30pm	Which Way Did They Go? Electrophoresis of Colored Dyes		Electrophoresis of Colored Dyes introduces students to the physical concepts of separating molecules by charge and size using agarose gel electrophoresis. Participants will draw and analyze results in this fun interactive virtual session. Participants should have colored pencils and plain paper available to fully participate. This activity is offered by the BTC Institute http://www.btc.org
6-12	1:30pm	Making Green Fuel for the Future!		Did you know that you can make diesel and jet fuel from plants or even used French fry oil! What's crazier is that some of the plants we are using are actually weeds! Come join us at the University of Wisconsin- Platteville for an up-close learning experience about how we do it. Learn more HERE .
9-12	2:30pm	Powering Beyond: STEM in the Energy Industry		Engineers from Alliant Energy will walk through key STEM concepts that are often taught in high school science classes and then discuss the direct link of these concepts to their work in the energy industry. They will also talk about their journey through STEM and into the energy industry.

Friday, October 22 (All sessions 45 min. unless otherwise indicated)

Grades	Time	Title/Recording	Virtual Activity Description	
6-12	9:30am	Exploring a Climate Change Solution (KEEP)		Explore how some Wisconsin schools are part of climate change solutions. During this virtual field trip you'll explore data trends of energy usage in schools, and then take a deeper dive into exploring data from solar dashboards on Wisconsin schools. Learn more HERE .
6-12	10:30am	My Story in Science So Far: From Voices Under-represented in Science		Join SciMed Graduate Research Scholars (GRS) for an engaging and interactive discussion with scientists and researchers who are underrepresented in Science, Technology, Engineering and Math careers. Hear about their own science story and their background and see if their journey might be similar or different from your own.
K-5	11:30am	Which Makes Better Bubbles: The Bubble-logy of Skim vs. Whole Milk		What does a "better bubble" mean to you? Can you design a fair experiment to determine how milkfat affects milk bubble-icity? This session includes an activity that requires common household items. Materials list will be provided in advance.
6-12	12:30pm	Power from Plants?		Power from plants? Rebecca Smith is a plant biologist at the Wisconsin Energy Institute who researches ways to make fuels from plants like poplar trees and prairie grass. Join us on Oct. 22 to meet Rebecca, tour a state-of-the-art laboratory, and ask questions about how plants can be a solution to climate change.
K-5	1:30pm	The Physics Experience		Physics is the study of how things move, how they push and pull on each other, and how they exchange energy. The Physics Experience show is a fast-paced, engaging, and educational physics program, filled with demonstrations that help people better understand the physics in the world around them, while having fun at the same time!

**TEACHERS! ALSO CHECK OUT THE TEACHER WORKSHOPS
 KIDWIND [OCT. 21](#) & #GAMIFICATION [OCT. 23](#)**